



METAL TUBE ROTAMETER

Metal Tube Rotameter is a Variable Area Flow Meter. It consists of a tapered tube, typically made of steel with a 'float', made of SS or PTFE. The differential pressure across the annulus area is constant. The float moves through the tapered tube up and down with respect to fluid flow. The vertical position of the float as indicated by scale is the measure of the instantaneous flow rate.

Specifications:

- Material of Construction : SS 316 / PTFE
- Float : SS 316 / PTFE
- Tube : SS 316
- Enclosure: SS Buffed / Die Cast Aluminum
- Line Size from 15 NB to 100NB
- Ranges between 25 LPH to 60000LPH
- Face-To-Face Distance :250mm
- Accuracy : +/- 2% of FullScale
- Measuring Span : 1:10
- Scale : Acrylic / Aluminum / SS

Various Features:

- Heavy Duty Design with Maximum Visibility
- Two Tone Powder Coated Excellent Finish
- No Threads in Body, Avoids Corrosion
- Easy to Maintain and Replace
- Suitable for on High Pressure application
- Single Piece (Joint-less) PTFE/ PFA/ PP clad end connections

Optional Features:

1 Two-Wire Transmitter

It is a micro controller based transmitter having LCD display with digital indications for instantaneous and totalized flow. The user can set various parameters through a front panel with easy to operate keypad. Each of the modes like Communication, Configuration, Calibration, Relay; in which the instrument can be programmed to operate are PASSWORD protected

Technical Specification:

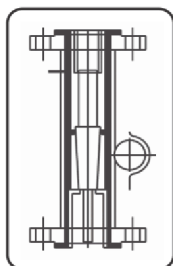
- Integral Mounting with Rotameter
- Transmitter Enclosure : Aluminium Die Casting, Ex-d IIC, IP66, T6 Zone 1 and 2
- Power Supply : 24 VDC ± 10%, 4.8 VA
- Input : Displacement of float with respect to flow
- Output : Option 1. : 4 - 20mA dc max. 600 Ω load /
Option 2. : 2. 4 - 20mA with HART Compatibility (Optional)
- Zero Cut-Off : 1%, 2%, 5%, 10% - Programmable
- Accuracy : ± 2% of Full Scale
- In-Built Relay Output (Latching Type)



- Nominal Switching Capacity : 1A 30 VDC (resistive load)
- Max. Switching Power : 30 W (DC) (resistive load)
- Max. Switching Voltage : 110V DC
- Max. Switching Current : 1 A

2 Rotameter with 'P&F' (PEPPERL+FUCHS) Make Switch

- P & F Switch Model No : SJ5-N
- Slot Distance : 5mm
- Supply Voltage : 8VDC through isolation amplifier
- O/P : Switching O/p
- Switch Setting : At any point over the scale.



Data Required for Offer:

1. Line Size
2. Flow Range
3. Optr. Temperature
4. Optr. Pressure
5. Flow Range
6. Fluid
7. Fluid Density

PTFE/PP - single pc (no joint) cladding
100% spark proof

Flow Range Chart (Fluid : Water, Temp: AMB ; Pressure : ATM)

NB	Model No	With PTFE Float LPH	With SS 316 Float LPH	Max Pressure Drop in mmwc	Test Pressure
15	MTR 01	-	2.5 - 25	1000	20
	MTR 02	2.5 - 25	4 - 40		
	MTR 03	4 - 40	6.5 - 65		
	MTR 04	6.5 - 65	10 - 100		
	MTR 05	10 - 100	16 - 160		
	MTR 06	16 - 160	25 - 250		
	MTR 07	25 - 250	40 - 400		
	MTR 08	40 - 400	63 - 630		
25	MTR 09	63 - 630	100 - 1000	1000	20
	MTR 10	100 - 1000	160 - 1600		
	MTR 11	160 - 1600	250 - 2500		
	MTR 12	250 - 2500	400 - 4000		
50	MTR 13	400 - 4000	630 - 6300	1200	20
	MTR 14	630 - 6300	1000 - 10000		
	MTR 15	1000 - 10000	1600 - 25000		
80	MTR 16	1600 - 10000	2500 - 25000	1500	20
	MTR 17	2500 - 25000	4000 - 40000		
100	MTR 18	4000 - 40000	6300 - 63000	1500	20